

Diagram No. 1222-3 & 1227

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey ... Wire Drag PBS-WD-4248 Office No. FE-77WD

LOCALITY

Virginia

General Locality ... Approaches to Chesapeake Bay

Locality ... Off Virginia Beach North

to Cape Charles

19 48

CHIEF OF PARTY A.C. Thorson

LIBRARY & ARCHIVES

November 28, 1949

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as:

WIRE DRAG

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(FE 77 W.D.)

Diag'd. on Diag. Ch. No. 1222-3 & 1227 Form 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT Type of Survey Wire Drag Field No. PBS-WD-4248 Office No. F. E. No. 3, (1949) LOCALITY State Virginia General locality Approaches to Chesapeake Bay Locality Off Virginia Beach North to Cape Charles 194 8 CHIEF OF PARTY A.C. Thorson LIBRARY & ARCHIVES Nov.28, 1949 DATE

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-7678 W.D

Field No. PBS-WD-4248

State	Virginia								
General loc	cality App	proache	s to Ches	apeake	Вау				
Locality	Off Virgi	inia Be	each North	to Cap	e Charles				
Scale 1:4	10,000			Da	te of survey	12 May	thru 17	August	1948
Instruction	ns dated	5 Marc	h 1948						
Vessel		PARKE	R. BOWEN &	STIRNI					
Chief of pa	arty	A.C. I	horson						
Surveyed b	оу	A.C. I	horson						
Soundings	taken by £	teracida	er , graphic r	ecorder,	henddendor	oùce			
Fathogran	ns scaled by								
Fathogran	ns checked b	оу	an gy						
Protracted	i by	Hugh l	L. Proffit	t & Sta	nley M. Ta	rkenton			
Salkations'	ips inked XXXXXXX	by	Stanley	M. Tar	kent on				
Soundings	in fatk o		feet at	MLW	XXXXXX				
REMARKS:		· - * * * * * * * * - - · · ·							

			2						

U. S. GOVERNMENT PRINTING OFFICE 693019

DESCRIPTIVE REPORT TO ACCOMPANY

WIRE DRAG SURVEY FIELD SHEET NO. PBS-WD-4248

PARKER, BOWEN & STIRNI

Lt. Comdr. A.C. Thorson, Comdg.

AU THORITY

This survey was executed in compliance with instructions for Project CS-326, dated 5 March 1948.

The re-survey of Item 15 (Kingston-Cellonite) was in compliance with Director's letter dated 6 May 1948.

The dragging in the vicinity of Lat. 36° -56.3' and Long.75°-53.5' was executed at the request of the Supervisor S.E. District.

DATE OF SURVEY

Field work on this sheet commenced on 12 May 1948 and was completed on 17 August 1948.

SCOPE

This survey was made in order to locate and determine the least depths over Items 15, 16, 18, 19 and 26. Additional dragging was accomplished in the vicinity of Items 3 and 4 in order to cover a holiday (split) which appeared on Field Sheet PBS-4147. (H-6976WD)

CONTROL

The first four days work on this sheet was controlled by visual sextant fixes on objects ashore. The remainder of the survey was controlled by Shoran methods. The two Shoran shore stations, HEN and CAPE were established at Cape Henry Lighthouse and False Cape respectively. The location of the station at False Cape was accomplished by the Three Point Problem and the computations pertaining thereto are submitted under separate cover.

SURVEY METHODS

During the first four days of this survey the vessels were controlled by visual sextant fixes on objects ashore.

The Shoran receiving equipment installed on the Guide and End vessels and the Shoran shore stations HEN and CAPE were placed in eperation on 9 June 1948 and there after Shoran control methods were employed.

Standard prescribed dual centrel methods were employed thrueut this survey. When Shoran control was initiated, azimuth to the NEAR and FAR bueys were determined by the Guide and End vessels respectively, by peleruses mounted en gyre-repeaters located on the flying bridges of the vessels.

Standard 100 feet lengths of ground wire were used for the tewline and the distance from the pilet house to the end of the bridle was added in determining the total length of the towline. The distance from the pilet house to the towing and of bridle was approximately 60 feet. The fellowing entries were made for length of towline:

Length en	Ground	The state of the s	Length of Tewline Entered in Meters
500 400		and the second	120 150
500			180

Tests for lift were made by the tender using a graduated lead filled pipe attached to graduated airplane cordo. This line was attached to a standard small buoy reel mounted on a fleat. A stray-line attached to the fleat facilitated proking up the tester. The pipe was ceated with a mixture of white-lead and eil just prior to each test in order to accurately determine point of centact with ground wire.

The Ship PARKER was used as the Guide vassel, the Ship BOWEN as the End Vessel and the Ship STIRNI as the Teader.

The lighted navigation bueys marking wrocks No. 274 and 282 were removed by the Coast Guard for one day enabling the party to completely cover the area in the vicinity of these two wrocks.

RECORDS

Tide reducers and lifts have been entered to the nearest 0.5 foot and checked. Effective depth diagrams for each drag strip have been drawn and checked for the indicated effective depth.

Drag settings were based en predicted tides for Hampton Reads, Virginia. The available time and height corrections for the area being dragged were applied to the predicted tides. Actual tides used in the completion of smeeth reserds were furnished this party by the Washington Office. All references to effective depth unless otherwise specified are those indicated in the record books.

Tide gages were not maintained by this party. Hourly heights scaled from the record ebtained at the standard gage in Hampton Reads, Virginia, with corrections for the applicable area, were furnished this party by the Washington Office and were used to process the records.

OBSTRUCTIONS, CLEARANCES, DISCREPANCIES, ETC.

Special reports relative to this survey were submitted to the Director during the progress of this survey and duplicates of these reports were forwarded to the Supervisor, S.E. District. Copies of these reperts are attached hereto and become a part of this reporto

There is a discrepancy between Shoran and visual control in the work on the Ringston-Collonite. This may be due to a weak location of signal, Tank. At the northern limits of this sheet visual and Sheren fixes agreed very closely, me purion of these on an apparant

RECOMMENDATIONS

Ne additional work in this area is recommended. The charting depths are these listed on the Obstruction Data Sheeto

> A.C. Thersen, Lt. Comdr. Cemdge PARKER, BOWEN & STIRWI

OBSTRUCTION DATA SHEET

				+			
Item 19- WARR 3 Late 36 - 45.93 Long. 75" - 46.23	Long.75° - 54 .70	Item 18-34478 30 Lat. 36 - 53 .86 Long. 75 - 46 .94	Item 15-Kapete Chaite Lat. 36° - 49 .63 Long. 75° - 52 .96	Heliday Lat. 36° - 56.50 Long.75° - 53.48	Item 16 * not found Lat. 37° - 03 33535 Long.75° - 51 51475	110	LOCATION
54-80	39-45	50	49-53	30	* 29 # 355	29	GENERAL DEPTH FEET
4		39	45		27	29	HANG
47-E		45 6 6 F	7-0		(4 (8)	12-16.8D 36.8-37.2D	POSITION
£579(00) p1348	43	37 /	43	30	*27	28	MAXIMUM CLEARANCE FEET
20-32-J	17-27 G	1-14 6	1-18 J	1-14 M &	1-15-L	44-51 D	POSITION
Wreck #282 Tiger	Sheel	Wreck #274 - Sentere	Kingston-Collonite WE = 7	Sheel	Wrook or which reported in 1934, but for which reported in 1934, but for which was on was on the form when the form of the for	* The Drag did not hang-bumped along bettem	CHARACTER OF OBSTRUCTION REMERKS
			3	1	111	W P	

STATISTICS FOR SHEET NO. (PBS-WD-4248) Ships PARKER, BOWEN & STIRNI Project CS-326

APPROACHES TO CHESAPEAKE BAY, VIRGINIA

Date 1948	Day Letter	Stet. MilesDrag	Number Positions	No. H.L.	Soundings Fath.
12 May 17 May 18 May 9 June 10 June 11 June 14 June 15 June 29 June 30 June 1 July 13 August 17 August	A B C D E F G H J K L M	0.9 1.3 3.2 5.9 4.6 4.3 4.8 4.9 3.2 5.5 2.0 4.0 2.9	7 12 24 51 45 39 33 47 32 49 15 25 37		1 - 1
	Totals	47.5	416		8

Total square statute miles area dragged 12.5

POST-OFFICE ADDRESS:

Washington, D.C.

22-sre S-1-PK

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

6 May 1948

To:

The Cemmanding Officer
U.S. C & G.S. Ships PARKER, BOWEN AND STIRNI
418 P.O. Building
Norfelk, Virginia

Subject:

Additional Field Work - CS-326

References: Letter, 29 April 1948, Supervisor S.E. District Letter, 6 May 1948, Director.

When weather conditions are suitable for wire-drag investigations outside Cape Henry, Virginia, priority shall be given to additional work required to establish the least depth on Wreck No. 279, Kingston Celonite, located at Latitude 36° 49.6°, Longitude 75° 52.2°.

To facilitate the smooth pletting of the wire-drag work accomplished by the Ship SOSBEE on the 17th and 18th of June 1946 (with the drag hanging up at an effective depth of 44 feet) you will determine the least depth on wreck No. 279 and submit your findings to the Norfelk Processing Office immediately upon completion.

Before starting work on this item, you will confer with the Supervisor of the Southeastern District, as it is quite prebable that he has more recent information on this wreck.

You will please acknowledge the receipt of these additional work instructions.

/S/ L.O. Celbert Director

POST-OFFICE ADDRESS:

Norfolk, Virginia

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

29 April 1948

Te:

The Director

U.S. Coast & Goodetie Survey Washington, 25, D.C.

Subject:

Additional Work Required Wreek No. 279 (Item No.15) Kingston Colonite

In smeeth pletting the wire drag at the Wreck Kingsten Celenite accomplished by the Ship SOSEER in June 1946, it has been determined that because of improvised equipment used the wire dragging accomplished at that time is not acceptable.

The Merritt-Chapman Co. did additional salvage work on this wreck in May 1946 and reported to the Navy that the wreck was demolished to 46 feet.

It is recommended that the Commanding Officer, Ships PARKER, NOWEN AND STIRNI be instructed to determine the least depth on the subject wreck.

/S/ George L. Andersen Lt. Comdr. USC & GS Supervisor S.E. District

Lt. Comdr. Thersen

Ju 2507 (1948)

POST-OFFICE ADDRESS:

418 P.O. Building, Norfolk, Virginia

TELEGRAPH ADDRESS:

10 June 1948

EXPRESS ADDRESS:

To:

The Director

Coast & Geodetic Survey /

Washington, D.C.

Subject:

Special Report on Sheal

Ref:

Paragraph 2 (Item 26), Supplemental

Instructions - Project CS-326

5 March 1948

A drag set to an effective depth of $29\frac{1}{2}$ feet teuched bettem.

A drag set to an effective depth of 29 feet cleared this shoal.

Summarized on page 4

It is recommended that the present charted depth of 29 feet be retained.

It was noted during this eperation that depth in the vicinity of this sheal were slightly deeper than those charted.

/S/ A.C. Thorson
Lt. Comdr.
Comdg. Ships
PARKER, BOWEN & STIRNI

POST-OFFICE ADDRESS:

418 P.O. Building, Norfolk, Virginia

TELEGRAPH ADDRESS:

30 June 1948

EXPRESS ADDRESS:

To:

The Director Coast & Geodetic Survey Washington, 25, D.C.

Subject: Special Report on Wreck No. 282

Reference: Paragraph 4, Supplemental Instructions Project CS=326, 5 March 1948

The wreck of the Tiger was found in Lat. 36°-45.90° and Long. 75° -46.28°.

A drag set to an effective depth of 41 feet hung the obstruction. A drag set to an effective depth of 40 feet cleared the obstruction.

page 4 - Item 19

Recommended charting/depth 40 feet.

Investigation based on predicted tides. The survey project was Sheran controlled.

cc Supervisor S.E. District /S/ A.C. Thorson Lt. Comdr. Comdg. Ships PARKER, BOWEN & STIRNI

Le f. 500 (1948)

POST-OFFICE ADDRESS:

418 P.O. Building, Nerfolk, Virginia

TELEGRAPH ADDRESS:

30 June 1948

EXPRESS ADDRESS:

To:

The Directer

U.S. Coast & Goodetic Survey

Washington, D.C.

Frem:

Commanding Officer, PARKER, BOWEN & STIRNI

Subject:

Special Report on Wreck - KINGSTON CELONITE

Reference:

Letter from Director, Re 22-sre-S-1-PIC,

Subject: Additional Work - CS-326

The wrock of the KINGSTON CELONITE was in Lat. 36-49.664 and Long. 75-52.0710

A drag set to an effective depth of 45% feet hung the ebstruction.

A drag set to an effective depth of ## feet cleared the ebstruction. This depth was based on the maximum lift thrucut the drag. Just prior to passing over the ebstruction the section that would pass ever it was tested and a lift of ## feet less than the maximum was recorded. Consequently the ebstruction was cleared at ### feet.

Recommended charting/depth 41 feet.

44Ft Charles (1222) See Rev. Dec. Regs. # 6976

Survey based on predicted tides and Sheran control.

It is very probable that the depth of 45 feet claimed charted. See by the salvage Contractor exists.

(Mt reviewed as

Charted See

FE *3 1949 p.4

(Not reviewed as of

this date 4-14-50)

Summarized on

Page 4- Item 15

/S/ A.C. Thorsen, Lt. Cemdr. Comdg. PARKER, BOWEN & STIRNI

Lee & 507 (1948)

POST-OFFICE ADDRESS:

418 P.O. Building, Norfolk, Virginia

TELEGRAPH ADDRESS:

20 August 1948

EXPRESS ADDRESS:

To:

The Director
U.S. Coast & Geodetic Survey
Washington, D.C.

Subject: Special Report on Wreck No. 274, SANTORE

Reference is made to Director's letter dated 8 July 1948, (83-bjm).

After actual tides were applied to drag depth ever the SANTORE the following is applicable:

Drag set to effective depth of 37 feet cleared the wrecks

Summarized on page 4

Item 18

Drag set to an effective depth of $39\frac{1}{8}$ feet hung the wreck.

Drag set to an effective depth of $39\frac{1}{2}$ feet touched and cleared the wreck.

Regarding Lt. Comdr. Tryon's work while attached to the CENTIAN, their drag depths were based on predicted tides and estimated lifts. No actual tests of lift were made. Comdr. Tryon states that data in his possession estimates his clearing the wreck at 40 feet.

> /S/ A.C. Thorson Lt. Comdr. Comdg. Ships PARKER, BOWEN & STIRNI

Jee 1 579 (1948)

POST-OFFICE ADDRESS:

418 P.O. Building, Nerfelk, Virginia

TELEGRAPH ADDRESS:

30 June 1948

EXPRESS ADDRESS:

To:

The Director

U.S. Coast & Geodetic Survey

Washington, D.C.

From:

Commanding Officer, PARKER, BOWEN & STIRNI

Subject:

Special Report on Wrock No. 274, SANTORE

The wreck of the SANTORE was found in Lat. 36-53-85° and Long. 75-46.92. A good sound contact was made on this wreck by the STIRNI using Sonar.

A drag set to an effective depth of 40 feet hung the ebstruction.

A drag set to an effective depth of 40 feet (same as above) touched and cleared the obstruction.

A drag set to an effective depth of 38 feet cleared the ebstruction.

Recommended charting depth 38 feet.

This survey was based on predicted tides.

The charted 39 feet sounding located in Lat. 36-54.7° and Long. 75-47.4° fell within the radius of this survey and was cleared with a drag set to an effective depth of $44\frac{1}{2}$ feet. It is recommended that the charted depth be changed accordingly.

/S/ A.C. Thorson, Lt. Comdr. Comdg. Ships PARKER, BOWEN & STIRNI

Jee 1 579 (1948)

superseded by attached letter of 20 Aug. 1948

SIGNALS USED SHEET H-7678

Triangulation Stations

CHARLES - CAPE CHARLES NEW LIGHTHOUSE

HEN - CAPE HENRY LIGHTHOUSE, 1887-1932

CUP - CAVALIER HOTEL CUPOLA, 1939

RANGE - RIFLE RANGE, TOWER A, U.S.E., 1925-39

RADIO - VA. BEACH, E. RADIO MAST, 1932

BUNK - VA. BEACH WATER TANK, (1909-31)

Topographic Stations

TANK - See D.R.

ADDENDUM

To Accompany

FE.No. 3, 1949 WIRE DRAG SURVEY H-7678 (Field No. P.B.S.-4248)

GENERAL

In accordance with the Director's letter dated 10 October 1949, only those lines showing minimum hangs and maximum clearances were plotted on the wreck items. The other lines were plotted on overlays and are being submitted with the smooth sheet.

ITEM #16 Lat. 37°-03! Long. 75°-51!

With the exception of line 1-25k, effective depths of drag lines on this item are greater than depths shown on hydrographic survey H-6595. These effective depths were not plotted on smooth sheet.

-see Page 4, -Item 16

Respectfully submitted,

Hugh L. Proffitt Cartographer

Norfolk, Virginia 16 November 1949

Approved and forwarded.

Earl O. Heaton

Supervisor, SE Dist.

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E. No.3, W.D. (1949)

•			
Records accompanying survey:			
Boat sheets; sounding vols; w	ire drag	g vols.	6 ••••;
bomb vols; graphic recorder, rolls	l envel.		
special reports, etc. lenvel. Drag Strip Trac	ings		• • • • •
***************************************	• • • • • •	• • • • • • •	• • • • •
The following statistics will be submitted wit rapher's report on the sheet:	th the c	eartog-	
Number of positions on sheet		416	
Number of positions checked			
Number of positions revised		• • • • •	
Number of soundings revised (refers to depth only)		••••	
Number of soundings erroneously spaced		••••	
Number of signals erroneously plotted or transferred		••••	v
Topographic details	Time	• • • • •	
Junctions	Time	• • • • •	
Verification of soundings from graphic record	Time	• • • • •	
Verification by	12 hrs.	Date 6	Oct. 50
Reviewed by Jodan Time	10 hrs	Date 7	NOV 50

This field examination was made to investigate four sunken wrecks and to obtain a clearance depth over a shoal. A split on H-6976(1945-47)W.D., was also covered.

The sunken wrecks were detected by Sonar and then wire dragged, using Shoran for control. The verified wrecks are listed on the obstruction data sheet items 15, 18 and 19 on page 4 of the Descriptive Report. The wreck in item 16 was not found.

The wire drag work was plotted on a large smooth sheet which has been cut into the five sections retained for filing with the Descriptive Report. Limits of some of the individual examinations are shown on H-6976(1945-47)W.D., and the Area and Depth sheet of that survey now includes present information falling within its limits.

The field examination was applied to Charts 1222(50-5/15) and 1227(50-4/24) before verification. No revision in the charted information is necessary except for the deletion of the 23-ft. clearance depth on Chart 1222, item 16, in lat. here to 37° 03.35', long. 75° 51.14'. The wreck previously charted here from H. O. Notice to Mariners No. 15, 1924 is considered to be disproved by the present examination. The bottom wire on 26-ft. and 27-ft. strips scraped the bottom for a considerable distance in the vicinity of the reported wreck without hanging; the strips were not smooth-plotted because of the continous grounding on the bottom. Another 27-ft. strip did hang, but this happened after the bottomwire was pulled along the bottom for some distance. H-6595(1940) shows 26- to 28-ft depths here, and it is considered that there is no wreck within the limits of the examination.

The position of the navigational buoy marking the wreck in lat. 36° 45.95', long. 75° 46.32', item 19, is in agreement with the charted position. The buoy marking the wreck in lat. 36° 49.63', long. 75° 52.15', was removed subsequent to the examination.

The Descriptive Report and attached correspondence adequately cover other matters pertaining to this examination. No further discussion is necessary.

G. F. Jordan

Inspected by: R. H. Carstens
November 7. 1950



TIDE NOTE FOR HYDROGRAPHIC SHEET

9 December 1949

Division of Hydrography and Topography:

Division of Charts: R. H. Carstens

Plane of reference approved in 7 volumes of sounding records for

HYDROGRAPHIC SHEET

FE No. 3 1948

Locality Approaches to Chesapeake Bay, Atlantic Ocean

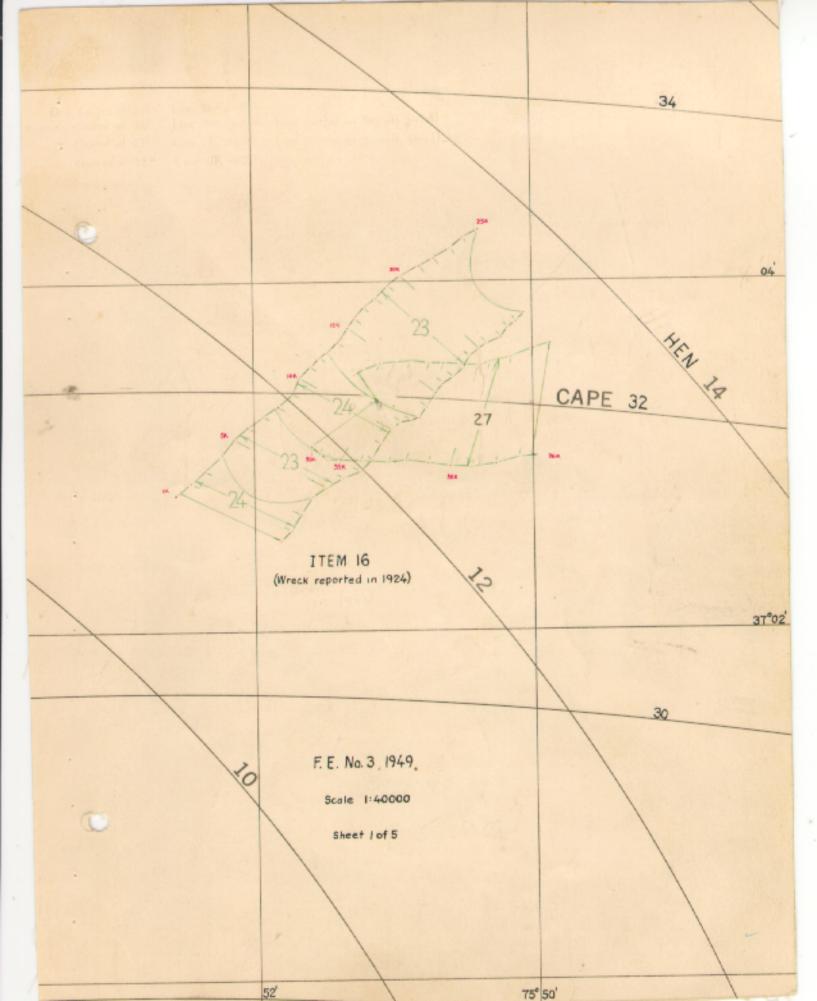
Chief of Party: A. C. Thorson in 1948
Plane of reference is mean low water, reading
3.3 ft. on tide staff at Hampton Roads (NOB)
13.4 ft. below B. M. 6 (1927)

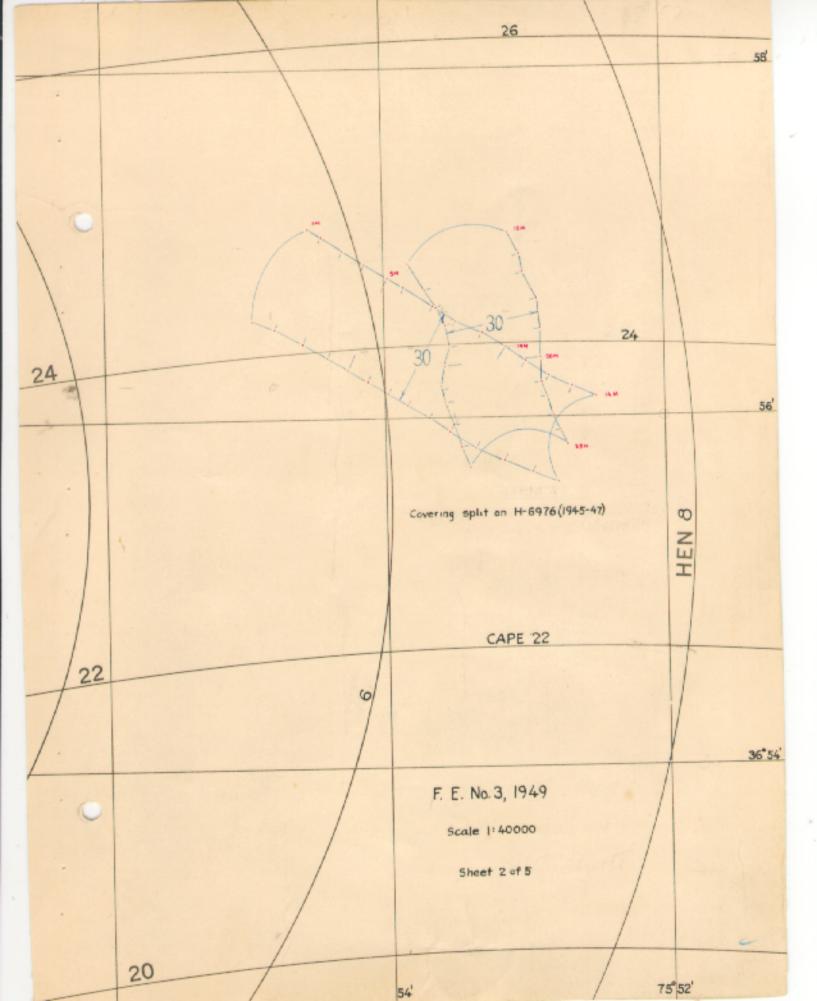
Height of mean high water above plane of reference is 2.5 feet.

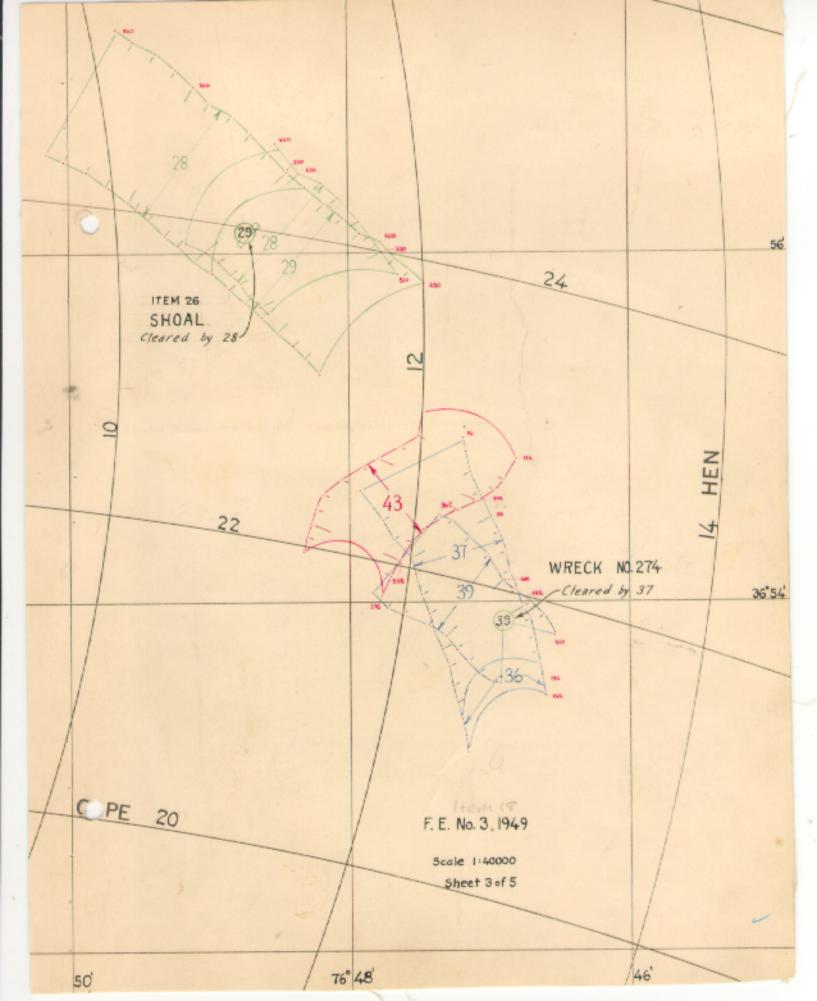
Condition of records satisfactory except as noted below:

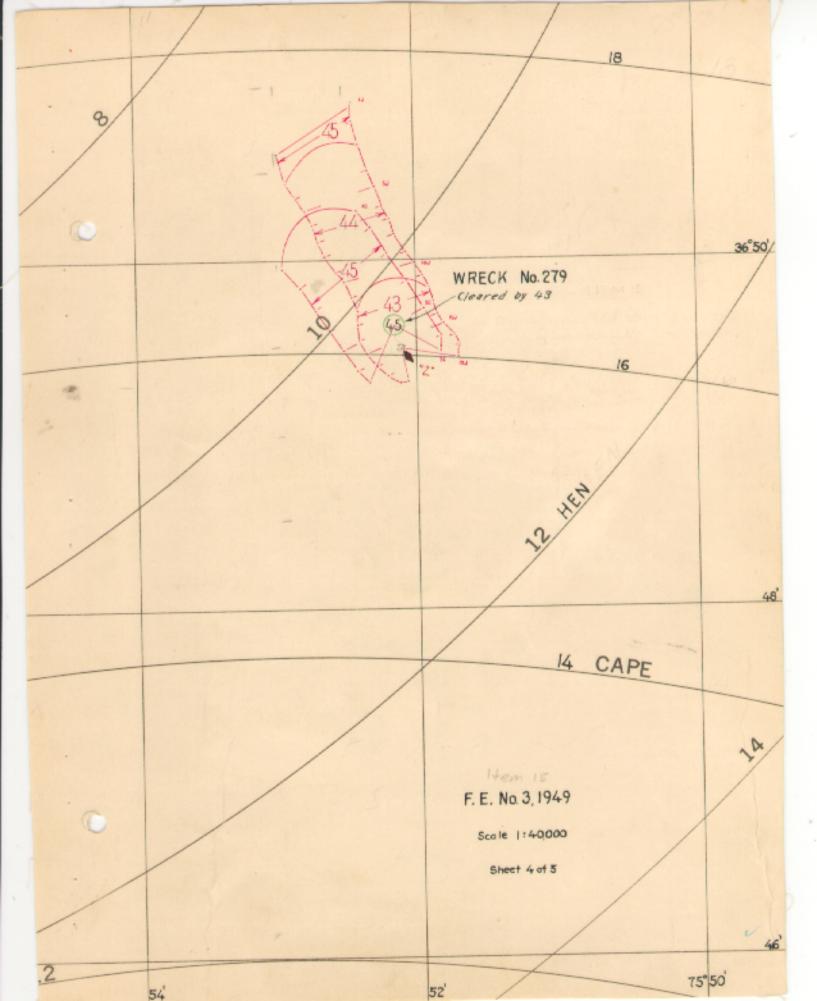
E.C.M. Kay
Section
Chief, Division of Tides and Currents.

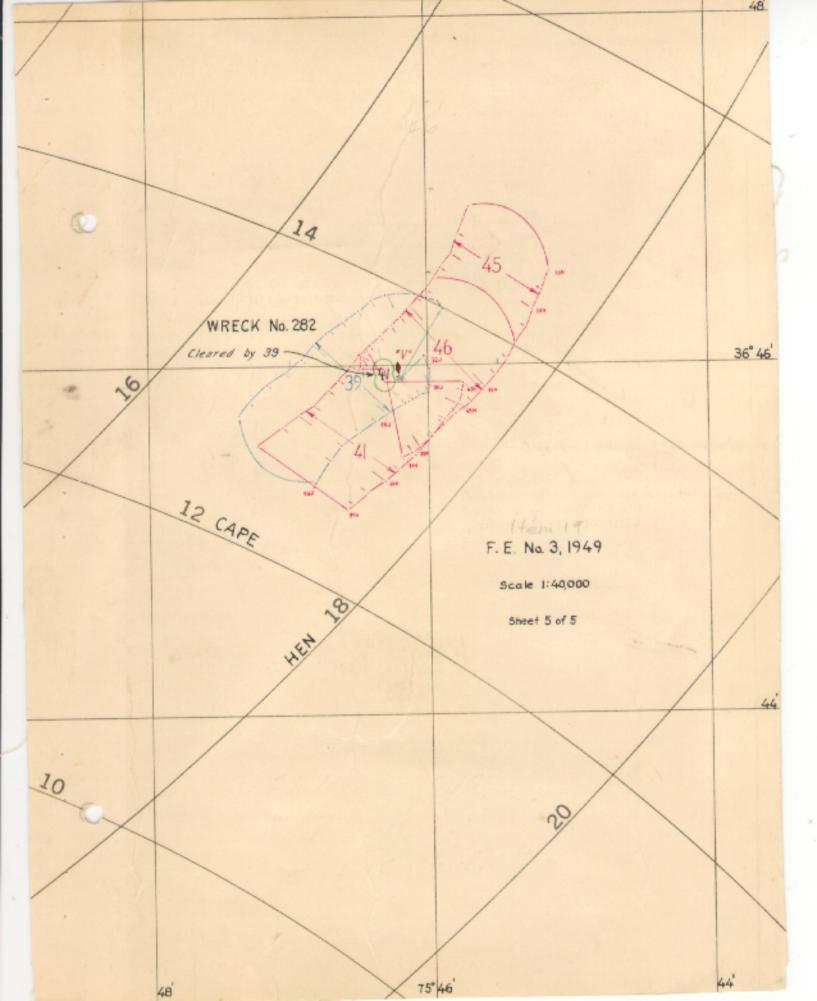
U. S. GOVERNMENT PRINTING OFFICE 756675











als sheet, survey ON ORIGINA DOCUMENT drag on wire NOTE .

TYPED IN NOTES ON LEFT AND RIGHT MARGINS ARE ON ORIGINAL DOCUMENT

If practicable locate suffient pocircles on "Tan Bark Point" ar

Special attention to be given to Obtain additional information fr

NAUTICAL CHARTS BRANCH

SURVEY NO. F.E. No. 3, W.D. (1949)

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10.1		Ø .	
12/49	/222	Pisegari	Before After Verification and Review Partielly
1			/
12/28/49	78	Mullin	Before After Verification and Review Partially
			V
##			Before After Verification and Review
/			
12/28/49	1109	Ja Milan	Before Verification and Review Tartially
4-14-50	1227	Mandros	Before After Verification and Review "
,			_
5-9-50	1000	J. T. W.	Before After Verification and Review fully
	H.O. MISC.	0.40	
12-15-50	11940-25-Z H.O. Misc.	JFA	Before After Verification and Review Completely
1-15/5P	11,940-25-3	Ale -	Completely
7/8/52	5335	CR. Withmann	-Before After Verification and Review
1-1-2		0 0 0	
7/2//53	1227	J. 9 Me Jam	After Verification and Review Completely.
12/2/54	1222	Hwalky	Before After Verification and Review Completely
7			Completely
3 June	78	17. Elle Swen	Examined efter Vok. (applied previously
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.